Col-E / **Recaf** Public

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Activating a research fault localization bot on your project? #420

Edit   New issue

⊙ Open   dginelli opened this issue 26 days ago · 2 comments

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dginelli commented 26 days ago   Spammy ☺ •••

Hi!

We are software engineering researchers and are currently looking for active open-source projects where we could test a new cool software bot: flacocobot!

When a new pull request is open, if it has test failures/errors, flacocobot analyzes the failure and posts a diagnosis as comments to the pull request, highlighting the most suspicious lines that likely need to be analyzed to fix the bug.

flacocobot works as follows:

- When a new PR is open, if the test suite fails, flacocobot starts its analysis.
- The top k suspicious (potentially buggy) lines of code are then highlighted as comments to the PR.

We would love to have your feedback in order to understand what you like or you do not like, what we can improve, and if you find it useful!

If you are interested in trying it, we will run flacocobot on your project for a period of two weeks and then give you a 1-minute questionnaire to collect your feedback.

What do you think? Can we activate flacocobot for Recaf?

Thanks,

Davide (**@dginelli**), André (**@andre15silva**), Matias (**@martinezmatias**), Benjamin (**@danglotb**), Martin (**@monperrus**)

You can find out more in our tools repos:

- https://github.com/SpoonLabs/flacoco
- https://github.com/eclipse/repairnator

Assignees
No one assigned

Labels
Discussion

Projects
None yet

Milestone
No milestone

Linked pull requests
Successfully merging a pull request may close this issue.
None yet

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2 participants

Col-E commented 25 days ago   Owner ☺ •••

This could be interesting, though I'd recommend pointing it to the `dev3` branch rather than `master` since that's where most of the new work is being done. Though, that being said, the rate of pushes is relatively low due to my own time constraints so I'm not sure if you'd get too much useful information out of it.

Good luck with the research anyways!

🏷 **Col-E** added the Discussion label 25 days ago

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dginelli commented 25 days ago · edited ⌄   Author Spammy ☺ •••

Perfect, thank you very much! We will activate our bot on your project in the coming hours. We do not have a specific logic to check the branch at the moment, but thank you for the recommendation. Basically, flacocobot will scan every new pull requests and if it will find one that fails due to test cases that do not pass, it will run the Flacoco Localization to find the most suspicious lines related to the failure.

If we will not be lucky and we will not have any new pull requests that flacocobot can analyze, we will just ask you to fill a super short questionnaire about software bots in general at the end of the 14 days :-)

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